

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A resource management method for managing resources in a label switching network, comprising:

retaining session data including bandwidth ensured by reserved sessions which have respectively completed a reservation of a requested bandwidth and bandwidth occupied by an on-communication session; ~~and~~

executing periodical re-allocation of each path employed by each of the reserved sessions with respect to the bandwidth ensured by the reserved sessions based on the retained session data; and

fluctuating a period of the periodical re-allocation of each path employed by each of the reserved sessions so as to be shorter as the sum of reservation request failure counts of all links becomes larger.

2. (Currently Amended) The resource management method in a label switching network according to claim 1, further comprising:

recording a failure count, for a fixed period, of a link causing a failure in a reservation request in a previous period; and

fluctuating a weight of the link ~~that tends to cause the failure based on a history of the failure count~~ in order to increase a difficulty of selection of the link with a large number of the failure count.

3. (Cancelled)

4. (Currently Amended) A reservation path optimization system for optimizing a reservation path between specified nodes configuring a label switching network, and including a plurality of modules stored in a computer-readable medium, comprising:

a reservation setting module for setting reservation paths and bandwidth for establishing sessions between specified nodes; ~~and~~

a reservation path re-allocating module for periodically re-allocating each of the reservation paths which has been already set by said reservation setting module based on the bandwidth which have been already set by said reservation setting module except bandwidth occupied by an on-communication session; and

a fluctuating module fluctuating a period of the periodical re-allocation of each path employed by each of the reserved sessions so as to be shorter as the sum of reservation request failure counts of all links becomes larger.

5. (Cancelled)

6. (Cancelled)

7. (Currently Amended) The reservation path optimization system according to claim [[5]]4, the reservation path re-allocating module periodically re-allocates each of the reservation paths based on a specified algorithm

8. (Cancelled)

9. (Currently Amended) The A reservation path optimization system according to claim [[9]]4, wherein the label switching network is an MPLS network, and the reservation paths are Label Switched Paths.

10. (Currently Amended) A reservation path optimization method for optimizing a reservation path between specified nodes configuring a network, comprising:

a reservation setting step of setting reservation paths and bandwidth for establishing sessions between specified nodes;~~and~~

a re-allocating step of periodically re-allocating each of the reservation paths which has been already set by the reservation setting step based on the bandwidth which have been already set by the reservation setting step except bandwidth occupied by an on communication session;
and

a fluctuating step of fluctuating a period of the periodical re-allocation of each path employed by each of the reserved sessions so as to be shorter as the sum of reservation request failure counts of all links becomes larger.